

Serial No.: 10/822,001
Docket No.: 101-1026
Amendment dated November 1, 2005
Reply to the Office Action of August 31, 2005

Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A system to replace a photosensitive unit and a transfer unit in a printer, the system comprising:
 - a printer body having an entrance to access a mounting location;
 - a frame ~~provided~~ disposed in the printer body and having the mounting location to receive a photosensitive unit and a transfer unit via the entrance of the printer body;
 - a door to open and close the entrance of the printer body; and
 - a locking unit, which is provided in the frame ~~and~~ to be operable independently of the door to simultaneously locks lock and-unlocks-a unlock the photosensitive unit and-a the transfer unit ~~that enter via the entrance of the printer body to be seated in the mounting location of the printer body.~~
2. (Currently Amended) The system of claim 1, further comprising:
 - ~~first~~ guide protrusions formed on the photosensitive unit and the transfer unit; and
 - a guide rail provided in the frame to guide each of the ~~first~~ guide protrusions of the photosensitive unit and the transfer unit that enter via the entrance of the printer body to be disposed in the mounting location.
3. (Currently Amended) The system of claim 2, wherein the photosensitive unit comprises a damping member, the transfer unit is stacked on the photosensitive unit and is elastically supported by the damping member of the photosensitive unit, and the locking unit comprises a rotating lever which is rotatably installed in the frame and which comprises a ~~first~~ locking portion to lock the transfer unit so that the transfer unit does not deviate from a direction along which the ~~first~~ guide protrusion of the transfer unit enters when the rotating lever is rotated in a locking direction.

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4. (Currently Amended) The system of claim 3, wherein the transfer unit further comprises a second guide protrusion which is locked by the rotating lever, and the guide rail comprises a first guide rail along which the ~~first~~-guide protrusion of the photosensitive unit and the ~~first~~-guide protrusion of the transfer unit are guided, and a second guide rail along which the second guide protrusion of the transfer unit is guided.

5. (Original) The system of claim 4, further comprising:
an auxiliary locking unit which locks the second guide protrusion of the transfer unit.

6. (Original) The system of claim 5, wherein the auxiliary locking unit comprises:

an interference lever rotatably installed in the frame; and
a spring which elastically biases the interference lever so that a free end of the interference lever protrudes toward the second guide rail;

wherein the free end of the interference lever comprises a slant surface on which the second guide protrusion smoothly moves down along the second guide rail when the transfer unit is mounted in the second guide rail, and a stepped surface which prevents the transfer unit from coming out of the printer body.

7. (Currently Amended) The system of claim 2, wherein the locking unit comprises:
a rotating lever rotatably installed in the frame;
a first locking portion formed on the rotating lever to lock and unlock the transfer unit so that the transfer unit does not deviate from a direction along which the ~~first~~-guide protrusion of the transfer unit enters when the rotating lever is rotated in a locking direction and an unlocking direction;

a rotating cam rotatably installed in the frame and comprises a second locking portion that locks the photosensitive unit by pressing the ~~first~~-guide protrusion of the photosensitive unit when the second locking portion is rotated in the locking direction; and

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a connection bar which connects the rotating cam and the rotating lever so that the rotating cam and the rotating lever move together in one of the locking direction and the unlocking direction.

8. (Currently Amended) The system of claim 7, wherein the transfer unit further comprises a second guide protrusion, and the guide rail comprises a first guide rail along which the first guide protrusion of the photosensitive unit and the first guide protrusion of the transfer unit are guided, and a second guide rail along which the second guide protrusion of the transfer unit is guided.

9. (Original) The system of claim 8, further comprising:
an auxiliary locking unit which locks the second guide protrusion of the transfer unit.

10. (Original) The system of claim 9, wherein the auxiliary locking unit includes:
an interference lever rotatably installed in the frame; and
a spring which elastically biases the interference lever so that a free end of the interference lever protrudes toward the second guide rail;

wherein the free end of the interference lever comprises a slant surface, on which the second guide protrusion smoothly moves along the second guide rail when the transfer unit is mounted within the second guide rail, and a stepped surface which prevents the transfer unit from exiting the printer body.

11. (Original) The system of claim 2, wherein the photosensitive unit comprises:
a photosensitive drum;
a case which covers a part of the photosensitive drum;
a handle rotatably coupled with the case; and
a damping member which shock-absorbingly contacts the transfer unit.

12. (Original) The system of claim 1, wherein the transfer unit comprises:
a transfer belt;

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a case which covers the transfer belt; and
a handle rotatably installed in the case.

13. (Original) The system of claim 1, wherein the photosensitive unit and the transfer unit enter the printer body via the entrance formed in an upward direction of the printer body.

14. (Currently Amended) A printer comprising a photosensitive unit on which an image to be printed is formed through exposure and development operations, a transfer unit which transfers the image formed on the photosensitive unit onto paper, and a system to replace the photosensitive unit and the transfer unit, wherein the system comprises:

a printer body having an entrance to access a mounting location;
a frame provided in a printer body; and
a locking unit provided in the frame and simultaneously locks and unlocks a photosensitive unit and a transfer unit that enter via the entrance of the printer body and are seated in the mounting location,

wherein the photosensitive unit includes a damping member which shock-absorbingly contacts the transfer unit.

15. (Currently Amended) The printer of claim 14, wherein the system further comprises ~~first~~-guide protrusions formed on the photosensitive unit and the transfer unit, respectively, and a guide rail provided in the frame and guides each of the ~~first~~-guide protrusions of the photosensitive unit and the transfer unit that enter via the entrance of the printer body to be disposed in the mounting location.

16. (Currently Amended) The printer of claim 15, wherein the photosensitive unit comprises a damping member, the transfer unit is stacked on the photosensitive unit and is elastically supported by the damping member of the photosensitive unit, and the locking unit comprises a rotating lever rotatably installed in the frame, and a ~~first~~-locking portion to lock and unlock the transfer unit so that the transfer unit does not deviate from a direction along which

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the ~~first~~-guide protrusion of the transfer unit enters when the rotating lever is rotated in a locking direction and an unlocking direction.

17. (Currently Amended) The printer of claim 16, wherein the transfer unit further comprises a second guide protrusion to be locked by the rotating lever, and the guide rail comprises a first guide rail along which the ~~first~~-guide protrusion of the photosensitive unit and the ~~first~~-guide protrusion of the transfer unit are guided, and a second guide rail along which the second guide protrusion is guided.

18. (Currently Amended) The printer of claim ~~17~~¹⁴8, wherein the system further comprises:

an auxiliary locking unit which locks the second guide protrusion of the transfer unit.

19. (Original) The printer of claim 18, wherein the auxiliary locking unit comprises:

an interference lever rotatably installed in the frame; and

a spring which elastically biases the interference lever so that a free end of the interference lever protrudes toward the second guide rail;

wherein the free end of the interference lever comprises a slant surface on which the second guide protrusion smoothly moves along the second guide rail when the transfer unit is mounted within the second guide rail, and a stepped surface which prevents the transfer unit from exiting the printer body.

20. (Currently Amended) The printer of claim 15, wherein the locking unit comprises:
a rotating lever rotatably installed in the frame and comprises a first locking portion to lock the transfer unit so that the transfer unit does not deviate from a direction along which the ~~first~~-guide protrusion of the transfer unit enters when the rotating lever is rotated in a locking direction;

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a rotating cam rotatably installed in the frame and comprises a second locking portion that locks the photosensitive unit by pressing the first-guide protrusion of the photosensitive unit when the second locking portion is rotated in the locking direction; and

a connection bar which connects the rotating cam and the rotating lever to move together in one direction of the locking direction and an unlocking direction.

21. (Currently Amended) The printer of claim 20, wherein the transfer unit further comprises a second guide protrusion, and the guide rail comprises a first guide rail along which the first-guide protrusion of the photosensitive unit and the first-guide protrusion of the transfer unit are guided, and a second guide rail along which the second guide protrusion of the transfer unit is guided.

22. (Original) The printer of claim 21, wherein the system further comprises: an auxiliary locking unit which locks the second guide protrusion of the transfer unit.

23. (Original) The printer of claim 22, wherein the auxiliary locking unit includes: an interference lever rotatably installed in the frame; and a spring which elastically biases the interference lever so that a free end of the interference lever protrudes toward the second guide rail;

wherein the free end of the interference lever comprises a slant surface on which the second guide protrusion smoothly moves along the second guide rail when the transfer unit is mounted in the second guide rail, and a stepped surface which prevents the transfer unit from exiting the printer body.

24. (Currently Amended) The printer of claim 14, wherein the photosensitive unit further comprises:

a photosensitive drum;

a case which covers a part of the photosensitive drum; and

a handle rotatably coupled with the case; and

~~a damping member which shock-absorbingly contacts the transfer unit.~~

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25. (Original) The printer of claim 14, wherein the transfer unit comprises:
a transfer belt;
a case which covers the transfer belt; and
a handle rotatably installed in the case.
26. (Original) The printer of claim 14, wherein the photosensitive unit and the transfer unit enter the printer body via the entrance formed in an upward direction of the printer body.
27. (New) A printer, comprising:
a frame having an opening therein to receive a photosensitive unit and a transfer unit into a seated position; and
a locking unit disposed in the frame and including a rotating lever extending from the frame in the opening to be rotatable in the opening when the photosensitive unit and the transfer unit are in the seated position within the frame such that the photosensitive unit and the transfer unit are locked in a locked position within the frame.
28. (New) The printer of claim 27, wherein the opening is disposed upwardly in the frame and the rotatable lever extends upward in the frame and is rotatable to bias the photosensitive unit and the transfer unit downward to be in contact with each other.